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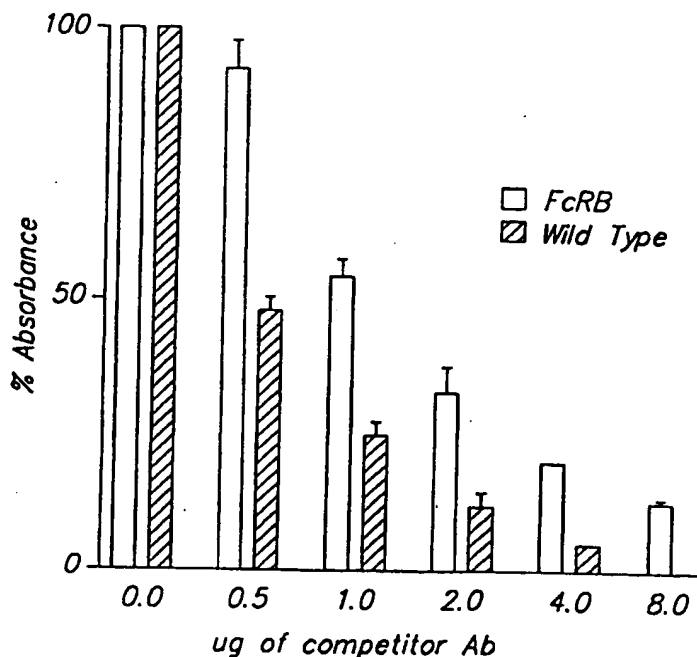
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(21) International Application Number: PCT/US99/18777 (22) International Filing Date: 17 August 1999 (17.08.99) (30) Priority Data: 60/096,868 17 August 1998 (17.08.98) US (71) Applicant: ABGENIX, INC. [US/US]; 7601 Dumbarton Circle, Fremont, CA 94555 (US). (72) Inventors: GALLO, Michael; 1376 Klamath Drive, San Jose, CA 95130 (US). JUNGHANS, Richard; 47 Rutland Square #3, Boston, MA 02118 (US). FOORD, Orit; 804 Cortez Lane, Foster City, CA 94404 (US). (74) Agents: HALEY, James, F. et al.; Fish & Neave, 1251 Avenue of the Americas, New York, NY 10020 (US).	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. (88) Date of publication of the international search report: 18 May 2000 (18.05.00)	

(54) Title: GENERATION OF MODIFIED MOLECULES WITH INCREASED SERUM HALF-LIVES

(57) Abstract

In accordance with the present invention, there are provided methods for the extension of serum half-lives of proteinaceous molecules, particularly antibody molecules, and compositions of molecules modified in accordance with the methods of the invention. In accordance with a first aspect of the present invention, there is provided a method of modifying the half-life of an antibody through providing an antibody containing an FcRn binding domain or the genes encoding such antibody and physically linking the antibody or the antibody as encoded to a second FcRn binding domain. In accordance with a second aspect of the present invention, there is provided a molecule that contains at least two distinct FcRn binding moieties.

Competition for binding with protein AHRP



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Application No

PCT/US 99/18777

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/42 C07K16/24 C12N15/19 C12N15/66

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 97 34631 A (UNIV TEXAS ;WARD ELIZABETH SALLY (US)) 25 September 1997 (1997-09-25) cited in the application page 3, line 4-19 page 4, line 9 -page 20, line 11 page 25, line 20 -page 47, line 13	1-11
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	— -/- humanized α -IL-2 "Reconstituted human antibody, against human IL-2"	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3018

Authorized officer

Mateo Rosell, A.M.

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 99/18777

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	<p>KIM J-K ET AL., : "Localization of the site of the murine IgG1 molecule that is involved in binding to the murine intestinal Fc receptor" EUROPEAN JOURNAL OF IMMUNOLOGY , vol. 24 (10), 1994, page 2429-2434 XP000878770 the whole document</p>	1,4
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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